(044)361-05-06
(067)469-02-12
(099)048-99-03
(093)672-77-76
ICQ:495-089-192
ICQ:613-211-859

User's Manual

Car compressor Viair 450C (45040)

In the online store Winauto you also can buy car compressor Viair 450C (45040). Delivery in Kyiv and throughout Ukraine with payment upon receipt!

winauto.ua

- Archive - Audio, video - Sound and Components - Car Safety and security - Car DVRs, cameras, parking - Car Goods - Automotive Lighting - Tweak - - Sale -

Online-store car audio and autogoods Winauto

VIAIR®
Your Vital Air Source

☐ **325C COMPRESSOR KIT**
PART NO. 32530 - 32533 - 32538

☐ **350C COMPRESSOR KIT**
PART NO. 35030 - 35033

☐ **400C COMPRESSOR KIT**
PART NO. 40040

☐ **450C COMPRESSOR KIT**
PART NO. 45040

325C

350C

400C

450C

winauto.ua

IMPORTANT:
It is essential that you and any other operator of this product read and understand the contents of this manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

USER MANUAL

Online-store car audio and autogoods Winauto

325C - 350C - 400C - 450C COMPRESSOR KIT

IMPORTANT SAFETY INSTRUCTIONS

CAUTION - To reduce risk electrical shock:
- Do not disassemble. Do not attempt repairs or modifications. Refer to qualified service agencies for all service and repairs.
- Do not use this product in or area where it can fall or be pulled into water or other liquids.
- Do not reach for this product if it has fallen into liquid.
- Use compressors with 12-volt DC systems only.
- This product should never be left unattended during use.

WARNING - To prevent injury:
- Never allow children to operate compressors. Close supervision is necessary when this compressor is being used near children.
- Compressors will become very HOT during and immediately after use. Do not touch any part of them with bare hands during and immediately after use.
- Do not use this product near flames or explosive materials or where aerosol products are being used.
- Do not operate this product where oxygen is being administered.
- Do not pump anything other than atmospheric air.
- Never use this product while sleepy or drowsy.
- Do not use any tools or attachments without first determining maximum air pressure for that tool or attachment.
- Never point any air nozzle or air sprayer toward another person or any part of the body.
- Each 380C air compressor is equipped with an Automatic Reset Thermal Protector, and can automatically restart after the thermal protector resets. Always cut off power source when thermal protector becomes activated.
- Wear safety glasses or goggles when installing this product.
- Use only in well ventilated areas.

INSTALLATION

Please read and follow the installation instructions carefully to avoid injury or damage to the compressor or your vehicle.

Each of our air compressors and parts have been carefully produced and packaged. Before you begin installation, please familiarize yourself with Installation Parts List (Fig. 1) of this manual.

Guidelines for Selecting Mounting Location:
The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please pay close attention to the following guidelines:

1. Select a FLAT AND SECURE location where the compressor s can be mounted.
2. To maximize air compressor performance, locate compressor as CLOSE TO THE BATTERY as possible so that length of positive lead wire required is at a minimum.
3. Choose mounting location that is as cool as possible and AWAY FROM HEAT SOURCES. The cooler the ambient temperature the less chance the compressor will overheat.
4. These compressors are moisture & splash resistant, but NOT WATERPROOF. Do not mount compressor in locations where the unit is likely to come in contact with water.
5. For remote filter mounting, select compressor mounting location where air line can be routed from compressor air inlet to remote inlet air filter. Make sure Remote Inlet Air Filter is located in a dry location, away from the elements.
6. You will also want to select compressor mounting location where the leader hose bracket can be mounted to secure the 2 ft. leader hose.
7. If it is necessary to mount air compressors further away from the battery, such as inside your vehicle or on the chassis of a pickup. See page 6 for Wire Gauge Guide.
8. Do not mount compressor near areas where flammable liquids are stored.

Winauto.ua

Online-store car audio and autogoods Winauto

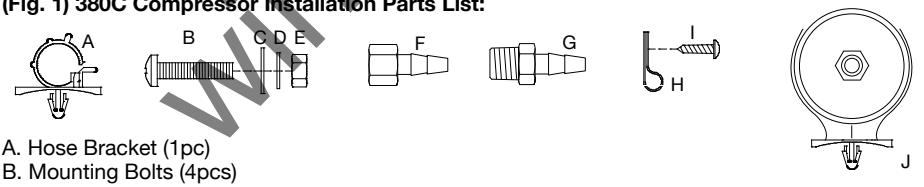
325C - 350C - 400C - 450C COMPRESSOR KIT

MOUNTING AND WIRING

1. Disconnect ground cable from vehicle's battery.
2. Temporarily position the air compressor in the location where it will be mounted.
3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
4. Mount each air compressor with the four sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. (See Fig. 2 for Mounting Instructions) Use of thread sealant is recommended.
5. NOTE: For Remote Inlet Air Filter Installation, refer to Remote Inlet Air Filter Installation Instruction included in the Remote Inlet Air Filter Pack.
6. Your air compressors come with heavy duty heat-resistant leader hose with 3/8" fittings. This leader hose is designed to prolong the life of your air line. Do not remove the leader hoses from the air compressors.
7. IMPORTANT: Please note, the leader hose that came with your compressor may have a built-in inline check valve. Do not remove inline check valve from leader hose.
8. Select proper location to mount leader hose with hose bracket provided. Avoid locations where leader hose may become tangled with wires and other hoses.
9. To mount hose bracket, drill hole with 3/16" drill bit and push self–anchoring hose bracket pin into hole. Route leader hose through hose bracket and secure hose by pressing bracket clamp into locked position.
10. To remove hose from the hose bracket, simply press down on the hose clamp release tab to release bracket clamp. (Fig. 3)
11. Connect compressor positive lead wire to one of the leads of your pressure switch.
12. Make sure that your compressor setup is properly fused. For appropriate fuse size, refer to amp draw of compressor in the specifications section of this manual.
13. Always locate fuse as close as possible to power source.
14. Before connecting to power source, re-check to make sure that all connections are made properly.
15. Connect and test compressor system by running the compressor for a short time to build up pressure in your air tank.
16. Once air pressure reaches preset cut out pressure of your pressure switch, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution. If a leak is detected, the air line may not be cut squarely or pushed all the way in. Repair connections as needed.

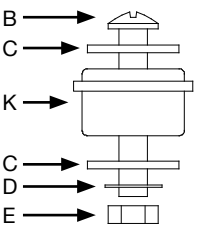
Winauto.ua

(Fig. 1) 380C Compressor Installation Parts List:



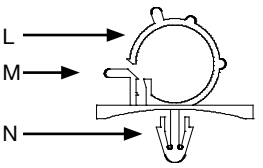
A. Hose Bracket (1pc)
B. Mounting Bolts (4pcs)
C. Flat Washers (8pcs)
D. Locking Washer (4pcs)
E. Nuts (4pcs)
F. 1/4" NPT F x 1/2" Barbed Fitting (1pc)
G. 1/4" NPT M x 1/2" Barbed Fitting (1pc)
H. Air Line Clips (3pcs)
I. Screws (3pcs)
J. Remote Inlet Air Filter with Filter Element (1pc)

(Fig. 2) Compressor Mounting Hardware



B. Mounting Bolt
C. Flat Washer
D. Locking Washer
E. Nut
K. Vibration Isolator

(Fig. 3) Leader Hose Bracket



L. Hose Clamp
M. Clamp Release Tab
N. Self-Anchoring Pin

Online-store car audio and autogoods Winauto

325C - 350C - 400C - 450C COMPRESSOR KIT

OPERATING INSTRUCTIONS

1. IMPORTANT: Always operate the compressors at or below the MAXIMUM PRESSURE RATING of the compressor (150 PSI).
2. Always observe the MAXIMUM DUTY CYCLE of the air compressor. Refer to Compressor Applications and Specifications Sections of this manual for details. Operation exceeding maximum pressure ratings and/or duty cycle will result in damage to the air compressor.
3. Your air compressors are equipped with AUTOMATIC THERMAL OVERLOAD PROTECTORS. This feature is designed to protect the air compressor from overheating and causing permanent damage. The thermal overload protector will automatically cut power to your air compressor should the internal operating temperature of the air compressor rise above safe levels during excessive use.
4. Should at any time during use, your air compressors automatically shut off, do not attempt to restart them. Cut power to the air compressor. The automatic thermal overload protector will automatically reset when internal temperature of the air compressor drops below safe levels. After allowing air compressor to cool off for about 30 minutes, you can safely resume use of the air compressor.
5. To prevent discharge of your vehicle's battery, we recommend that you keep the vehicle's engine running while operating air compressors.
6. ONLY OPERATE AIR COMPRESSORS IN WELL-VENTILATED AREAS.
7. Compressor performance is enhanced when operating compressor with vehicle's engine running.
8. INSTALLATION TIP:
   Always plumb your system using a separate tank port for each compressor leader hose. This can improve flow performance.

MAINTENANCE & REPAIRS

1. Periodically check all electrical, fittings connections. Clean and tighten as needed.
2. Periodically check all mounting screws. Tighten as needed.
3. Replace Air Filter Element periodically. Replacement frequency depends on operating frequency and operating environment. For frequent use in dusty environments, we recommend that you replace air filter element once a month.
4. Regularly clean dust and dirt from compressor cooling fins and motor housing.
5. Your air compressor is equipped with a permanently lubricated, maintenance-free motor. Never try to lubricate the compressor.
6. All repairs should be performed by Manufacturer or Manufacturer's Authorized Service Agencies only.

CAUTION:
Never touch the air compressor or fittings connected to the air compressor with bare hands during or immediately after use. The leader hose and fittings connected to leader hose will become very HOT during and after use. If necessary, wear heat resistant gloves to handle fittings, air line, and leader hose.

SPECIFICATIONS

• Part No. 32530 & 32533 / 325C Compressor Kit / Silver & Chrome

Motor Voltage:	12 Volts
Max. Current Consumption:	19 Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	150 PSI
Max. Duty Cycle (@ 72^{0}F & 100 PSI):	33%
Minutes On/Off (@ 72^{0}F & 100 PSI):	Continuous
Max. Restart Pressure:	150 PSI
Max. Ambient Temperature:	158^{0}F
Min. Ambient Temperature:	-40^{0}F
Auto. Reset Thermal Protection:	Yes

winauto.ua

Online-store car audio and autogoods Winauto

325C - 350C - 400C - 450C COMPRESSOR KIT

• Part No. 32538 / 325C-24v Compressor Kit / Silver

Motor Voltage:	24 Volts
Max. Current Consumption:	10 Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	150 PSI
Max. Duty Cycle (@ 72^{0}F & 100 PSI):	33%
Minutes On/Off (@ 72^{0}F & 100 PSI):	Continuous
Max. Restart Pressure:	150 PSI
Max. Ambient Temperature:	158^{0}F
Min. Ambient Temperature:	-40^{0}F
Auto. Reset Thermal Protection:	Yes

• Part No. 40040 / 400C Compressor Kit / Silver

Motor Voltage:	12 Volts
Max. Current Consumption:	26 Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	150 PSI
Max. Duty Cycle (@ 72^{0}F & 100 PSI):	33%
Minutes On/Off (@ 72^{0}F & 100 PSI):	Continuous
Max. Restart Pressure:	150 PSI
Max. Ambient Temperature:	158^{0}F
Min. Ambient Temperature:	-40^{0}F
Auto. Reset Thermal Protection:	Yes

• Part No. 45040 / 450C Compressor Kit / Silver

Motor Voltage:	12 Volts
Max. Current Consumption:	19 Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	150 PSI
Max. Duty Cycle (@ 72^{0}F & 100 PSI):	100%
Minutes On/Off (@ 72^{0}F & 100 PSI):	Continuous
Max. Restart Pressure:	150 PSI
Max. Ambient Temperature:	158^{0}F
Min. Ambient Temperature:	-40^{0}F
Auto. Reset Thermal Protection:	Yes

• Part No. 35030 & 35033 / 350C Compressor Kit / Silver & Chrome

Motor Voltage:	12 Volts
Max. Current Consumption:	17 Amps
Motor Type:	Permanent Magnetic
Horsepower:	1/4
Max. Working Pressure:	150 PSI
Max. Duty Cycle (@ 72^{0}F & 100 PSI):	100%
Minutes On/Off (@ 72^{0}F & 100 PSI):	Continuous
Max. Restart Pressure:	150 PSI
Max. Ambient Temperature:	158^{0}F
Min. Ambient Temperature:	-40^{0}F
Auto. Reset Thermal Protection:	Yes

winauto.ua

Online-store car audio and autogoods Winauto

COMPRESSOR APPLICATION GUIDE

To ensure that you get the highest level of satisfaction from your compressor's performance, refer to information below:

VIAIR COMPRESSOR REFERENCE CHART

COMPRESSOR SERIES	DUTY CYCLE	WORKING PRESSURE
100 SERIES	15%	130 PSI
200 SERIES	20%	150 PSI
215 SERIES	17%	150 PSI
225 SERIES	20%	150 PSI
265 SERIES	22%	150 PSI
275 SERIES	25%	150 PSI
280 SERIES	30%	150 PSI
325 SERIES	33%	150 PSI
350 SERIES	100%	150 PSI
380 SERIES	100%	200 PSI
400 SERIES	33%	150 PSI
450 SERIES	100%	150 PSI
480 SERIES	100%	200 PSI
490 SERIES	40%	150 PSI
490 SERIES	100%	175 PSI

ABOUT COMPRESSOR DUTY CYCLE:

Compressor Duty Cycle refers to amount of time a compressor can be operated in a given time period, at 100 PSI and at a standard ambient temperature of 72ºF. Duty Cycle is commonly expressed in percentile as:

Compressor on Time/ (Compressor on Time + Off Time) %

As an example, a compressor that is rated for 25% duty cycle means that compressor can be operated at:

100 PSI @ 72ºF for 10 Minutes ON and 30 Minutes OFF

10 Min. On / (10 Min. On + 30 Min. Off) = 10 Min. / 40 Min.

=25% Duty Cycle

winauto.ua

DUTY CYCLE REFERENCE CHART

DUTY CYCLE @100PSI / 72ºF	MINUTES ON / OFF
15%	6 Min. On / 34 Min. Off
20%	8 Min. On / 32 Min. Off
25%	10 Min. On / 30 Min. Off
30%	13 Min. On / 30 Min. Off
33%	15 Min. On / 30 Min. Off
100%	Continuous Duty

ABOUT RATED WORKING PRESSURE:

To ensure trouble free service life of your compressor, always operate compressor within rated working pressure of the compressor. Never use a pressure switch with a higher cut-off pressure than compressor's rated working pressure.

WIRE GAUGE GUIDE 12-VOLT:

Amp Draw	Length of wire from battery to compressor				
	10	15	20	25	30
10	14	12	10	10	10
15	12	10	10	8	8
20	10	10	8	6	6
25	10	8	6	6	6
30	10	8	6	6	4
40	8	6	6	4	4
50	6	6	4	4	2
60	6	4	4	2	2

WIRE GAUGE GUIDE 24-VOLT:

Amp Draw	Length of wire from battery to compressor				
	10	15	20	25	30
10	14	12	10	10	10
15	12	10	10	8	8
20	10	10	8	6	6
25	10	8	6	6	6
30	10	8	6	6	4
40	8	6	6	4	4
50	6	6	4	4	2
60	6	4	4	2	2

Online-store car audio and autogoods Winauto

TROUBLESHOOTING GUIDE:

Tank pressure drops when compressor (s) shut off	1. Loose drain cock 2. Check valve leaking 3. Loose connections	1. Tighten drain cock 2. Replace check valve or compressor(s) 3. Check all connections with soap and water solution and tighten
Compressor runs continuously and air flow lower than normal	1. Excessive air usage 2. Loose connections 3. Worn piston ring or inlet valve. 4. Clogged air filter element	1. Decrease air usage 2. Check all connections with soap and water solution and tighten. 3. Repair or replace compressor 4. Replace air filter element
Compressor runs continuously causing safety valve (if equipped) to open	1. Bad pressure switch 2. Defective safety valve	1. Replace pressure switch 2. Replace safety valve
Excessive moisture in discharge	1. Excessive water in air tank 2. High humidity	1. Drain tank, tilt tank to drain. Drain tank more frequently 2. Move compressor to area with less humidity, or use air line filter.
Compressor will not run	1. No power, or power switch in OFF position 2. Blown fuse 3. Motor overheats 4. Faulty pressure switch.	1. Make sure compressor switch is ON 2. Disconnect compressors from power source, replace fuse. (Refer to Specifications section for correct fuse amperage.) 3. Let compressors cool off for about 30 Minutes to allow thermal overload switch reset. 4. Replace pressure switch
Thermal overload protector cuts out repeatedly	1. Lack of proper ventilation or ambient temperature too high 2. Compressor valves failed	1. Move compressor to well ventilated area, or area with lower ambient temperature 2. Repair or replace compressor
Excessive knocking or rattling	1. Loose mounting bolts 2. Worn bearing on eccentric or motor shaft 3. Cylinder or piston ring is worn	1. Tighten mounting bolts 2. Repair or replace compressor 3. Repair or replace compressor

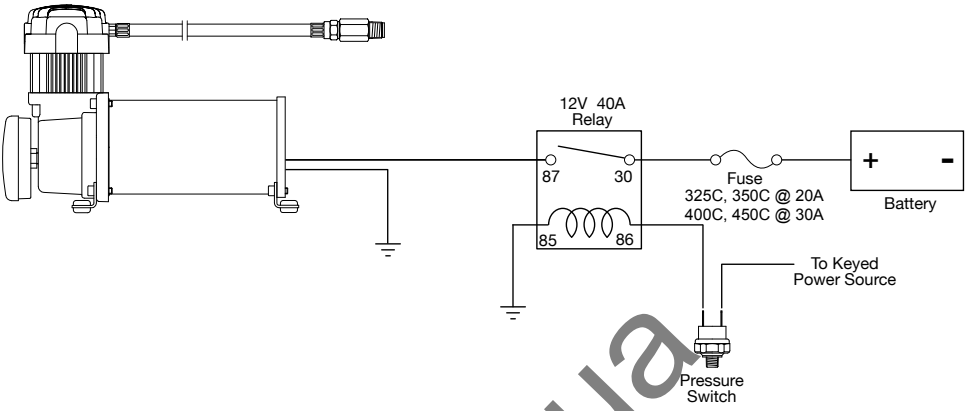
winauto.ua

CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.

Online-store car audio and autogoods Winauto

325C - 350C - 400C - 450C COMPRESSOR KIT

Wiring Diagram:
(Fuse Not Included)



winauto.ua

VIAIR CORPORATION MANUFACTURER DEFECT WARRANTY:

VIAIR Corporation warrants this product, when properly installed and/or under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from provided date of purchase. To receive a warranty inspection, please contact VIAIR Corporation. A valid, dated sales receipt must accompany your request. Returns should be made within one year of the date of purchase, after a Return Goods Authorization (RGA) number has been assigned by VIAIR Corporation. To obtain an RGA number, fax a copy of your receipt to (949) 585-0188.

For complete warranty details, visit: www.viaircorp.com/warranty

IMPORTANT:
THIS WARRANTY COVERS PRODUCT DEFECTS ONLY; IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.

VIAIR®
Your Vital Air Source

VIAIR CORPORATION
15 EDELMAN
IRVINE, CA 92618
TEL: (949) 585-0011
FAX: (949) 585-0188
www.viaircorp.com

USER MANUAL